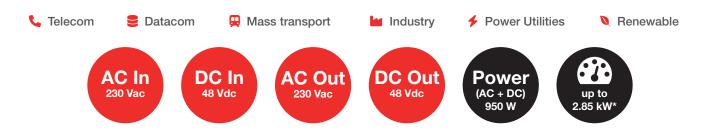


Sierra XC 10 - 48/230



Designed for eXtreme Conditions, Sierra is the world's first multidirectional power converter, bundling numerous features within its unique design!

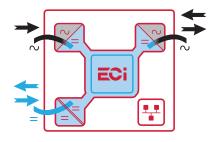


Optimized Power Allocation

The Sierra XC 10 - 48/230 stands out with its three ports (AC/AC/DC), efficiently secures AC and DC loads while charging batteries. Allocating a total power of 950 W between AC and DC port, with a maximum of 800 W per port, it ensures **dynamic power distribution** based on power needs.

Resilience in Harsh Conditions

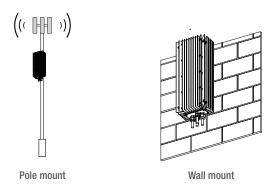
Engineered to endure extreme environments, this converter boasts an IP65 rating, guaranteeing robustness against earthquakes, vibrations, shocks, high temperatures, humidity, water projection, and corrosive atmospheres. Its durability makes it an ideal choice for diverse applications, including telecom antennas, security cameras, and onboard installations.



* Using 3 modules and a junction kit

Versatile Installation and Streamlined Maintenance

Operating fanlessly for quiet performance, the Sierra XC 10 - 48/230 not only simplifies maintenance but also ensures a quieter operational environment. Additionally, its pole or wall-mountable design provides flexible installation options, catering to various installation needs. Moreover, its scalable nature enables parallelization of up to 3 modules, providing adaptability to diverse power demands. This flexibility allows for effortless expansion when necessary, making it an ideal choice for evolving power needs.



Key features:

- Secure AC & DC loads
- From 950 to 2850 W
- Harsh Environement (IP65 / NEMA 4)
- Onboard and Outdoor applications
- · Compact design for easy installation and operation
- Pole- or wall-mounted
- Fanless for quiet operation and maintenance optimization
- Parallelizable for enhanced scalability

Illustrations are non-binding and may include customized fittings.









Sierra XC 10 - 48/230

General	
Part Number	T731730101
Cooling / Ingress protection	Natural convection / IP65-NEMA 4
MTBF	200 000 Hrs (MIL-217-F at 30°C and 80% load)
Dielectric strength DC/AC	4300 Vdc
RoHS / Material (casing)	Compliant / Aluminium
	Compliant to ETSI 300-019-1-4 class 4.1E
Operating T° / Relative Humidity	-40°C to +65°C derating above 40°C / 0-100%
Storage T° / Relative Humidity	Compliant to ETSI 300-019-2-4 class 4.1E -40°C to +70°C / 0 to 100%
Vibration	ETSI EN300019-2-4 Ver 2.5.1 Table 5-Class 1 (under functional) ETSI EN300019-2-1 Ver 2.3.1 (2017 - 11) Table 4-Class 1.2 (under packed)
Altitude above sea without de-rating of power	< 1500 m / derating $>$ 1500 m – 0.8 % per 100 m / max 4000 m
Power	
AC Input Data	
Nominal voltage (AC) / Current	230 Vac / Max 4.1 Amps
/oltage range (AC)	155 – 270 Vac (derating below 195 Vac)
Brownout	
Power factor / THD	600 W @155 Vac / 800 W @195 Vac linear decreasing > 99% / < 3%
Frequency range (selectable) / synchronization range	50 Hz (range 47 – 53 Hz) / 60 Hz (range 57 – 63 Hz)
DC Input Data	
DC voltage: Nominal / range	48 Vdc / (40 – 60V) derating starts @45 Vdc
Nominal current (at 48 Vdc and 800 W output)	18.5 A
Maximum input current (for 15 second) / voltage ripple	23.1 A / < 10 mV RMS
AC Output Data	
Efficiency AC to AC (EPC) / DC to AC / AC to DC	96% / > 92% / > 92%
Nominal voltage AC (Range)	230 Vac (200 - 240 Vac), derating below 225 Vac
Frequency / frequency accuracy	50 or 60 Hz / 0.03%
Nominal Output power	1000 VA / 800 W (at 800 W AC load, 150 W is still available for the 48V DC output)
Short time overload capacity	125% (15 seconds)
Admissible load power factor	Full power rating from 0 inductive to 0 capacitive
Fotal harmonic distortion (resistive load)	<1%
Load impact recovery time (10% - 90%)	≤ 0.4 ms
Nominal current	4.34 A @ 230 Vac
Crest factor at nominal power	3 : 1 for load P.F. ≤ 0.7
Short circuit clear up capacity at AC input or on battery	20.24 Arms for 20 ms
Short circuit current after >20 ms	7.73 Arms for 15 seconds
AC output voltage stability	±1% from 10% to 100% load
Static / Dynamic voltage regulation	±1% between 10% and 100% load / <5% from 0 to 100% to 0 load impact (100 ms)
DC Output Data	1170 between 1070 and 10070 load 7 < 370 months to 10070 to 0 load impact (100 ms)
	50.5 V.L. (44 00.V.L.)
Nominal voltage (range)	53.5 Vdc (44 – 60 Vdc)
Maximum power	800 W (at 800 W DC load, 150 W is still available for the AC load)
Maximum current at 48 Vdc	24.45 A
Reverse polarity protection	Yes
Efficiency AC to DC	> 92%
n Transfer Performance	
Max. Voltage interruption / total transient voltage duration (max)	0 sec / 0 sec
Signaling & Supervision	
Display / Controller	LED / Inview GW (T602004000), Inview S (T602004100) and Inview X (T602004200) for indoor
	and Inview XC-IP65 (T602004140) controller for outdoor.
Safety & EMC	
Safety	IEC62040-1, IEC62477-1
EMC	EN 61000-3-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8 / IEC 62040-2 (CISPR ClassA)
Environmental	EN62059, ETSI EN300019-2
144 mm 24.5 mm	383 5 mm
144 mm 24.5 mm	383.5 mm →
144 mm 24.5 mm	

Sierra XC 10 - 48/230 - Datasheet - v1.7 Specifications can change without notice. New data will be updated on our website: www.cet-power.com. The present equipment is protected by several international patents, trademarks and copyrights.







